

#### Data sheet

CSE-M24 | Embedded Serial to Ethernet Converter

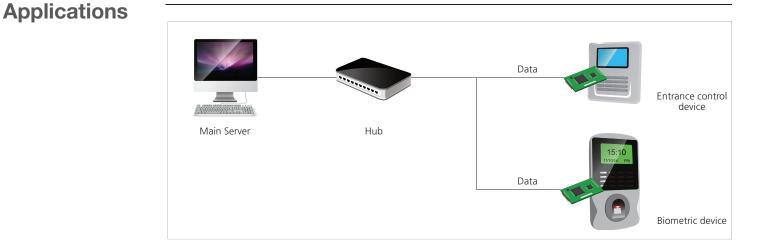


#### **Overview**

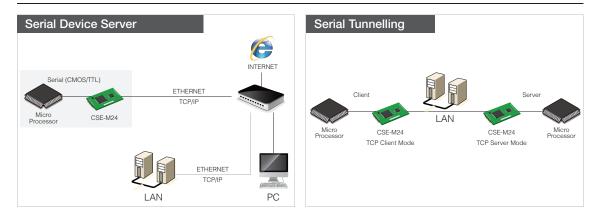
CSE-M24 is an embedded serial to Ethernet module which is pin compatible with EZL-410. This module basically provides conversion functions to remotely control and manage 4 serial devices over Ethernet. CSE-M24 is the perfect solution for those who plan to move forward to next generation Internet protocol, IPv6. This embedded serial to Ethernet comes preloaded with basic communication functions(TCP, UDP, etc.) along with a packet fragmentation separator so that it can be used diverse applications. This serial to Ethernet has a high speed(up to 460,800bps) UART port which can be extended to RS232/RS422/RS485 in accordance with users environment.

### **Features**

- 4 x UART (3.3V level)
- 10/100Mbps Ethernet
- High speed UART (up to 460.8Kbps)
- IPv4/IPv6 dual stack
- Separator settings for packet fragmentation



## System Diagram



# **Specifications**

Serial Interface         4 x UART, 3.3V level with 5V tolerant input           RXD, TXD, RTS (TXDE for RS485), CTS, GND         2 X 12 2mm pitch pin header X 2           Connector         2 X 12 2mm pitch pin header X 2           Serial Port Properties         300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff)           Data Bits         8bits, 7bits with parity           Parity         None, Even, Odd, Mark, Space           Stop Bit         1, 1.5, 2           Network Interface         10Base-T/100Base-TX Ethernet           Ethernet Speed Auto Sense         1:1 or Cross-over Cable Auto Sense           Simple External Circuit Required         Software Functions           Protocols         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6           Protocols         TCP, UDP, IP, ICMP, ARP, TELNET           DHCP, PPPoE, DNS, DDNS         DHCP, PPPoE, DNS, DDNS           IP & MAC filtering - Restrict host or network         Password for Configuring		Serial Physical Interface
RXD, TXD, RTS (TXDE for RS485), CTS, GND         Connector       2 X 12 2mm pitch pin header X 2         Serial Port Properties         Baudrate       300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff)         Data Bits       8bits, 7bits with parity         Parity       None, Even, Odd, Mark, Space         Stop Bit       1, 1.5, 2         Network Physical Interface       10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense       1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required       Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6       TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS       IP & MAC filtering - Restrict host or network	Serial Interface	4 x UART, 3.3V level with 5V tolerant input
Serial Port Properties         Baudrate       300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff)         Data Bits       8bits, 7bits with parity         Parity       None, Even, Odd, Mark, Space         Stop Bit       1, 1.5, 2         Network Interface       10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense       1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required       Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6       TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS       IP & MAC filtering - Restrict host or network		RXD, TXD, RTS (TXDE for RS485), CTS, GND
Baudrate300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff)Data Bits8bits, 7bits with parityParityNone, Even, Odd, Mark, SpaceStop Bit1, 1.5, 2Network Physical Interface10Base-T/100Base-TX EthernetEthernet Speed Auto Sense1:1 or Cross-over Cable Auto SenseSimple External Circuit RequiredProtocolsIPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6ProtocolsICP, UDP, IP, ICMP, ARP, TELNETDHCP, PPPoE, DNS, DDNSIP & MAC filtering - Restrict host or network	Connector	2 X 12 2mm pitch pin header X 2
Data Bits       8bits, 7bits with parity         Parity       None, Even, Odd, Mark, Space         Stop Bit       1, 1.5, 2         Network Interface       10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense       1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required       Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6       TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS       IP & MAC filtering - Restrict host or network		Serial Port Properties
Parity       None, Even, Odd, Mark, Space         Stop Bit       1, 1.5, 2         Network Physical Interface         10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense         1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required         Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network	Baudrate	300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff)
Stop Bit       1, 1.5, 2         Network Physical Interface         10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense         1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required         Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network	Data Bits	8bits, 7bits with parity
Network Interface       Network Physical Interface         Network Interface       10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense       1:1 or Cross-over Cable Auto Sense         1:1 or Cross-over Cable Auto Sense       Simple External Circuit Required         Software Functions       IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET       DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network	Parity	None, Even, Odd, Mark, Space
Network Interface       10Base-T/100Base-TX Ethernet         Ethernet Speed Auto Sense       1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required       Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6       TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS       IP & MAC filtering - Restrict host or network	Stop Bit	1, 1.5, 2
Network Interface       Ethernet Speed Auto Sense         1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required         Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network		Network Physical Interface
Network Interface       1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required         Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network	Network Interface	10Base-T/100Base-TX Ethernet
1:1 or Cross-over Cable Auto Sense         Simple External Circuit Required         Software Functions         IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network		Ethernet Speed Auto Sense
Software Functions           IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6           TCP, UDP, IP, ICMP, ARP, TELNET           DHCP, PPPoE, DNS, DDNS           IP & MAC filtering - Restrict host or network		1:1 or Cross-over Cable Auto Sense
Protocols       IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6         TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network		Simple External Circuit Required
Protocols       TCP, UDP, IP, ICMP, ARP, TELNET         DHCP, PPPoE, DNS, DDNS         IP & MAC filtering - Restrict host or network		Software Functions
DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network	Protocols	IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6
IP & MAC filtering - Restrict host or network		TCP, UDP, IP, ICMP, ARP, TELNET
Security		DHCP, PPPoE, DNS, DDNS
Security Password for Configuring	Security	IP & MAC filtering - Restrict host or network
		Password for Configuring
TCP Server (T2S)		TCP Server (T2S)
Communication Mode TCP Client (COD)	Communication Mode	TCP Client (COD)
TCP Server/Client with AT command (ATC) - Patent		TCP Server/Client with AT command (ATC) - Patent
UDP Mode (U2S)		UDP Mode (U2S)
Separator settings for packet fragmentation	Additional Functions	Separator settings for packet fragmentation
Additional Functions TCP Server/Client Mode		TCP Server/Client Mode
Sending MAC address Option		Sending MAC address Option
Management		Management
ezManager Configuration and Monitoring Tool through Network and Serial	ezManager	Configuration and Monitoring Tool through Network and Serial
TELNET Telnet Login	TELNET	Telnet Login
AT Command Configuring in ATC mode - Patent	AT Command	Configuring in ATC mode - Patent
Supplementary Software		
ezManager Configuration Tool for Windows		5
ezVSP Serial to Network Virtual Driver for Windows		
ezTerm Simple TCP/IP Communication Test Tool	ezierm	
Dimension           Size         70mm X 50mm X 9mm	Sizo	
Operating Environment		
Input Voltage DC 3.3V	Input Voltage	
Current Consumption         270mA typical		
Operating Temperature 0°C ~ +70°C		
-40°C ~ +85°C		-40°C ~ +85°C